

**WHAT IS CLAIMED IS:**

1 1. A navigational system for a vehicle comprising an optical  
2 arrangement installed on at least one transparent viewing surface for a  
3 driver of the vehicle, said optical arrangement representing images  
4 displayed on said at least one viewing surface producing guiding  
5 images for imparting directions to the driver.

1 2. A navigational system as claimed in Claim 1, wherein said images  
2 comprise graphical representation pointing towards objects observed by  
3 the driver.

1 3. A navigational system as claimed in Claim 2, wherein said graphical  
2 representations comprise an image of at least one arrow display on said  
3 at least one viewing surface pointing towards a selected object for  
4 guiding the driver in a specified direction of travel.

1 4. A navigational system as claimed in Claim 3, wherein said at least  
2 one arrow is projected on said at least one viewing surface so as to be  
3 perceived in a 3-dimentional spatial image.

1 5. A navigational system as claimed in claim 1, wherein said at least  
2 one viewing surface comprises the windshield of an automotive vehicle.

1 6. A navigational system as claimed in Claim 1, wherein said at least  
2 one viewing surface comprises a side front window of an automotive  
3 vehicle.

1 7. A navigational system as claimed in Claim 1, wherein said at least  
2 one viewing surface comprises eyeglasses worn by the driver of the  
3 vehicle.

1 8. A navigational system as claimed in Claim 1, wherein said at least  
2 one viewing surface comprises lenses of said optical arrangement  
3 having at least one arrow provided thereon, said lenses having  
4 regulatable degrees of curvature and through which there are displayed  
5 objects located exteriorly of said vehicle, said lens curvatures  
6 facilitating the 3-dimensional spatial image perception.

1 9. A navigational system as claimed in Claim 1, wherein said system  
2 comprises means to assist drivers of the vehicle having reading  
3 disabilities and restrictions to read the names of objects and streets  
4 displayed on said at least one viewing surface.

1 10. A navigational system as claimed in Claim 1, wherein said system  
2 comprises means to assist drivers of the vehicle to recognize the colors  
3 of traffic lights as displayed on said at least one viewing surface.

1 11. A navigational system as claimed in Claim 3, wherein said system  
2 is in operative communications with a global positioning system (GPS)  
3 so as to impart information to the driver regarding objects observed on  
4 said at least one viewing surface and as indicated by the driver by  
5 pointing to the objects with pointing means.

1 12. A navigational system as claimed in Claim 11, wherein said  
2 pointing means comprise said at least one arrow.

1 13. A navigational system as claimed in Claim 11, wherein a computer  
2 is operatively connected to said system for operating said at least one

3 arrow; means for inputting information to said computer by said driver;  
4 said computer including means for analyzing said information displayed  
5 on said at least one viewing surface while communicating with said  
6 global positioning system, and imparting directional instructions to said  
7 driver in responsive to processing of said items of information.

1 14. A navigational system as claimed in Claim 13, wherein said  
2 information is inputted to said computer through a microphone in the  
3 form of verbal commands, and instructions received through a  
4 loudspeaker.

1 15. A navigational system as claimed in Claim 14, wherein said  
2 information is inputted to said computer through hand-written or  
3 keyboard-operated functions.

1 16. A navigational system as claimed in Claim 13, wherein said  
2 computer processes interrogations from said system regarding tasks  
3 including the reading of signs, determining colors and identifying  
4 objects, processing images related to specified tasks and providing  
5 answers to the driver responsive thereto which are displayed on said at  
6 least one viewing surface to assist the driver in directional guidance of  
7 the vehicle.

1 17. A navigational system as claimed in Claim 13, wherein control  
2 means for said system are installed on a driver steering wheel of said  
3 vehicle.

1 18. A navigational system as claimed in Claim 17, wherein said control  
2 means comprise a mouse which is mounted on the steering wheel.

1 19. A method for the navigation of a vehicle comprising installing an  
2 optical arrangement on at least one transparent viewing surface for a  
3 driver of the vehicle, said optical arrangement representing images  
4 displayed on said at least one viewing surface producing guiding  
5 images for imparting directions to the driver.

1 20. A navigation method as claimed in Claim 19, wherein said images  
2 comprise graphical representation pointing towards objects observed by  
3 the driver.

1 21. A navigation method as claimed in Claim 20, wherein said  
2 graphical representations comprise an image of at least one arrow  
3 display on said at least one viewing surface pointing towards a selected  
4 object for guiding the driver in a specified direction of travel.

1 22. A navigation method as claimed in Claim 21, wherein said at least  
2 one arrow is projected on said at least one viewing surface so as to be  
3 perceived in a 3-dimensional spatial image.

1 23. A navigation method as claimed in claim 19, wherein said at least  
2 one viewing surface comprises the windshield of an automotive vehicle.

1 24. A navigation method as claimed in Claim 19, wherein said at least  
2 one viewing surface comprises a side front window of an automotive  
3 vehicle.

1 25. A navigation method as claimed in Claim 19, wherein said at least  
2 one viewing surface comprises eyeglasses worn by the driver of the  
3 vehicle.

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1 26. A navigation method as claimed in Claim 19, wherein said at least  
2 one viewing surface comprises lenses of said optical arrangement  
3 having at least one arrow provided thereon, said lenses having  
4 regulatable degrees of curvature and through which there are displayed  
5 objects located exteriorly of said vehicle, said lens curvatures  
6 facilitating the 3-dimensional spatial image perception.

1 27. A navigation system as claimed in Claim 19, wherein said system  
2 to assists drivers of the vehicle having reading disabilities and  
3 restrictions in reading the names of objects and streets displayed on  
4 said at least one viewing surface.

1 28. A navigation method as claimed in Claim 19, wherein said system  
2 comprises assisting drivers of the vehicle in recognizing the colors of  
3 traffic lights as displayed on said at least one viewing surface.

1 29. A navigation method as claimed in Claim 21, wherein said system  
2 is in operative communications with a global positioning system (GPS)  
3 so as to impart information to the driver regarding objects observed on  
4 said at least one viewing surface and as indicated by the driver by  
5 pointing to the objects with pointing means.

1 30. A navigation method as claimed in Claim 29, wherein said pointing  
2 means comprise said at least one arrow.

1 31. A navigational system as claimed in Claim 29, wherein a computer  
2 is operatively connected to said system for operating said at least one  
3 arrow; inputting information to said computer by said driver; said  
4 computer analyzing said information displayed on said at least one  
5 viewing surface while communicating with said global positioning

6 system, and imparting directional instructions to said driver in  
7 responsive to processing of said items of information.

1 32. A navigation method as claimed in Claim 31, wherein said  
2 information is inputted to said computer through a microphone in the  
3 form of verbal commands, and instructions received through a  
4 loudspeaker.

1 33. A navigation method as claimed in Claim 32, wherein said  
2 information is inputted to said computer through hand-written or  
3 keyboard-operated functions.

1 34. A navigation method as claimed in Claim 31, wherein said  
2 computer processes interrogations from said system regarding tasks  
3 including the reading of signs, determining colors and identifying  
4 objects, processing images related to specified tasks and providing  
5 answers to the driver responsive thereto which are displayed on said at  
6 least one viewing surface to assist the driver in directional guidance of  
7 the vehicle.

1 35. A navigation method as claimed in Claim 31, wherein a control for  
2 said system is installed on a driver steering wheel of said vehicle.

1 36. A navigation method as claimed in Claim 35, wherein said control  
2 comprises a mouse which is mounted on the steering wheel.